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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/437,580	11/09/1999	ALEXANDER G. MACINNIS	36101/SAH/B6	8182	
23363	7590 11/20/2002				
CHRISTIE, PARKER & HALE, LLP			EXAMINER		
SUITE 500	OLORADO BOULEVARD		NGUYEN, KEVIN M		
PASADENA, CA 91105			ART UNIT	PAPER NUMBER	
			2674	<u> </u>	
			DATE MAILED: 11/20/2002	DATE MAILED: 11/20/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
,	09/437,580	MACINNIS ET AL.
Office Action Summary	Examiner	Art Unit
	Kevin M. Nguyen	2674
The MAILING DATE of this communication a		ith the correspondence address
Period for Reply		ONTHIO FROM
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stat. - Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 2	0 September 2002 .	,
2a) ☐ This action is FINAL. 2b) ☒	This action is non-final.	
3) Since this application is in condition for allo closed in accordance with the practice und	•	
Disposition of Claims		
4) Claim(s) 1-20 is/are pending in the application	ion.	
4a) Of the above claim(s) is/are withd	rawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-20</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exami		ha E countries
10) The drawing(s) filed on is/are: a) ac	•	
Applicant may not request that any objection to 11) The proposed drawing correction filed on 20		
If approved, corrected drawings are required in		proved b) disapproved by the Examine
12) The oath or declaration is objected to by the	• •	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	ian priority under 35 U.S.C.	\$ 119(a)-(d) or (f)
a) ☐ All b) ☐ Some * c) ☐ None of:	ight phoney and of the city.	3 1 70(4) (4) 61 (1).
1. Certified copies of the priority docume	ents have been received	
2. Certified copies of the priority docume		onlication No
3. ☐ Copies of the certified copies of the pr		· · · · · · · · · · · · · · · · · · ·
application from the International I * See the attached detailed Office action for a li	Bureau (PCT Rule 17.2(a)).	-
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	• •	
Attachment(s)	•	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .

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DETAILED ACTION

Request for Continued Examination

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/21/2002 has been entered. An action on the RCE follows:
- 2. The information disclosure statement filed 9/20/2002 and 10/21/2002 that has been placed in the application file, the information referred to therein have been considered as to the merits.
- 3. The corrected or substitute drawings were received on 9/20/2002. These drawings are approved.
- 4. The indicated allowability of claims 1-20 are withdrawn in view of the newly discovered reference(s) to Saeger et al (IDS). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tateyama (US 5,515,077) in view of Saeger et al (US 5,467,144).

As to claim 1, Tateyama teaches the method of horizontally scrolling a display window to the left comprising the steps of blanking out four bit color data (10, 10) (see Fig. 24 D) in one horizontal display period (Fig. 24 A, col. 8, lines 3-24), image is scrolled by one dots to the left (horizontal scroll +1) (Fig. 24E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26). Tateyama et al fail to teach a read pointer. However, Saeger et al teach the position of the PIP overlay on the screen will be determined by the starting address of the read pointer of the video RAM at the start of the scanning for each field of the main signal (figure 18, col. 16, lines 7-10). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the read pointer taught by Saeger et al in Tateyama et al's image because this would map or determine the positions of the pictures (col. 1, lines 11-12 of Saeger et al).

As to claims 2 and 4, Tateyama teaches the image is scrolled by two dots to the left (horizontal scroll +2), and a color vector (Y2 Y3 U1 V1,... Yn-2 Yn-1 Um Vm, Z) is read, where m=(n-1)/2 (see col. 7, lines 38-41).

As to claim 3, Tateyama teaches blanking out four-bit color data (10, 10) (see Fig. 24 D).

As to claim 5, Tateyama teaches the image is scrolled by two dots (pixel) to the left (horizontal scroll +2), and a color vector (Y2 Y3 U1 V1,... Yn-2 Yn-1 Um Vm, Z) is

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read, where m=(n-1)/2 (see col. 7, lines 38-41), blanking out four bit color data (10, 10) (see Fig. 24 D).

As to claim 6, Tateyama teaches the pallet codes are defined by data of 4, 5, 6, and bits for the 16, 32, and 64, 128 color modes (see col. 1, lines 25-28).

As to claim 7, Tateyama teaches the method of horizontally scrolling a display window to the right comprising the steps of blanking out four bit color data (10, 10) (see Fig. 25 D) in one horizontal display period (Fig. 25 A, col. 8, lines 3-24), image is scrolled by one dots to the right (horizontal scroll -1) (Fig. 25E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26). Tateyama et al fail to teach a read pointer. However, Saeger et al teach the position of the PIP overlay on the screen will be determined by the starting address of the read pointer of the video RAM at the start of the scanning for each field of the main signal (figure 18, col. 16, lines 7-10). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the read pointer taught by Saeger et al in Tateyama et al's image because this would map or determine the positions of the pictures (col. 1, lines 11-12 of Saeger et al).

As to claims 8 and 10, Tateyama teaches the image is scrolled by two dots to the right (horizontal scroll -2), and a color vector (Y2 Y3 U1 V1,... Yn-2 Yn-1 Um Vm, Z) is read, where m=(n-1)/2 (see col. 7, lines 38-41).

As to claim 9, Tateyama teaches blanking out four-bit color data (10, 10) (see Fig. 24 D).

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As to claim 11, Tateyama teaches the image is scrolled by two dots (pixel) to the right (horizontal scroll -2), and a color vector (Y2 Y3 U1 V1,... Yn-2 Yn-1 Um Vm, Z) is read, where m=(n-1)/2 (see col. 7, lines 38-41), blanking out four bit color data (10, 10) (see Fig. 24 D).

As to claim 12, Tateyama teaches the pallet codes are defined by data of 4, 5, 6, and bits for the 16, 32, and 64, 128 color modes (see col. 1, lines 25-28).

As to claim 13, Tateyama teaches the graphic display system which includes the a game-software recording medium CD-ROM 100 (raw graphic data), control unit 104 (a display engine) for mainly controlling transmission of image data (see Fig. 9, col. 4, lines 29-33), the control unit 104 has direct memory access (DMA) are supplied through an SCSI interface form CD-ROM 100. Data supplied to the SCSI controller are buffered in the K-RAM (see Fig. 30, col. 9, lines 53-57), blanking out four bit color data (10, 10) (see Fig. 24 D). Tateyama et al fail to teach a read pointer. However, Saeger et al teach the position of the PIP overlay on the screen will be determined by the starting address of the read pointer of the video RAM at the start of the scanning for each field of the main signal (figure 18, col. 16, lines 7-10). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the read pointer taught by Saeger et al in Tateyama et al's image because this would map or determine the positions of the pictures (col. 1, lines 11-12 of Saeger et al).

As to claims 14-17, Tateyama teaches the format for compressed image data in the memory, pallet colors in 16, 32, 64 and 128 color modes are employed to display images. Image data are transmitted for 16 rasters (lines) through a data bus of 8 bits.

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According to the system, plural color modes may be used for one screen; however, 16 raster data are displayed in a single color mode. In FIG. 31, "A" specifies the type of image data. In the area "A", each of "FFH" and "F8H" represents IDCT compressed data for a natural picture. On the other hand, each of "F3H,"F2H," F1H" and "F0H" represents image data with a color pallet for an animation picture. "F3H," F2H," F1H" and "F0H" represent run-length compressed data of 128, 64, 32 and 16 colors, respectively. "B," C" and "D" represent the first and last halves of bytes of a compressed data region and data for two byte boundary of compressed data, respectively (see col. 10, lines 18-34).

As to claims 18-20, Saeger et al teach the position of the PIP overlay on the screen will be determined by the starting address of the read pointer of the video RAM at the start of the scanning for each field of the main signal (figure 18, col. 16, lines 7-10).

7. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tateyama (US 5,515,077) in view of Sokawa et al (US 6,353,460).

As to claims 1-20, Tateyama teaches the method of horizontally scrolling a display window to the left comprising the steps of blanking out four bit color data (10, 10) (see Fig. 24 D) in one horizontal display period (Fig. 24 A, col. 8, lines 3-24), image is scrolled by one dots to the left (horizontal scroll +1) (Fig. 24E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26). Tateyama et al fail to teach a read pointer. However, Sokawa et al teach a read pointer P_R pointing to the head address of the first input

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buffer portion, starting the read of the input image data from the first input buffer portion (figure 12, col. 22, lines 28-31). Since the plurality of output ports are provided with the plurality of read pointers and the relationships between the pointers can be programmably set, a variety of memory functions can be realized (col. 24, lines 7-10). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the read pointer taught by Sokawa et al in Tateyama's image because this would perform efficient high level image processing while providing an video signal processing device with a reduced cost (col. 9, lines 18-20 of Sokawa et al).

8. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tateyama (US 5,515,077) in view of Numata (US 5,907635).

As to claims 1-20, Tateyama teaches the method of horizontally scrolling a display window to the left comprising the steps of blanking out four bit color data (10, 10) (see Fig. 24 D) in one horizontal display period (Fig. 24 A, col. 8, lines 3-24), image is scrolled by one dots to the left (horizontal scroll +1) (Fig. 24E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26). Tateyama et al fail to teach a read pointer. However, Numata teaches the address pointer (read pointer) is shifted on bit leftwardly (figure 9, col. 6, lines 40-41). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the read pointer taught by Numata in Tateyama's image because this would provide quantization and variable length coding of a picture data at a high speed (col. 1, lines 11-12 of Numata).



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9. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tateyama (US 5,515,077) in view of Allen et al (US 5,982,425).

As to claims 1-20, Tateyama teaches the method of horizontally scrolling a display window to the left comprising the steps of blanking out four bit color data (10, 10) (see Fig. 24 D) in one horizontal display period (Fig. 24 A, col. 8, lines 3-24), image is scrolled by one dots to the left (horizontal scroll +1) (Fig. 24E, col. 8, lines 50-52), a picture is displayed on the screen in plurality color mode for each "nH" (n rasters) (see Fig. 28, col. 8, lines 25-26). Tateyama et al fail to teach a read pointer. However, Allen et al teach read pointers 405, 410 and 415 using to incrementally drain the three planes of the video buffer 100 (figure 4, col. 6, lines 31-32). It would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the read pointer taught by Allen et al in Tateyama's image because the sequence counter is configured to detect when a final location of the sequence of memory location has been addressed (col. 2, lines 56-58 of Allen et al).

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-FRI from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kevin M. Nguyen Examiner Art Unit 2674

> RICHARD HUERPE SUPERMISCHY PATENT EXAMILIER THE MOLIGRY CONTER 2000